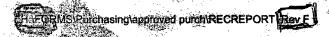
Receiving Report

Packing Slip: Invoice: Receipt: New Supplier	Yes / Yes / Cash / Yes /	No No Or No		Waybill At	lote Attach tached: Complete: pection	Yes	No No No No	N/A
Discrepancies Part Number	Descript		Quantity Didered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
		7 00 000						
	·							
					initials of	Receiver	QC12.	
Production/Ad	min							





Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25903

Purchase Order Date 9/24/2014 PO Print Date 9/24/2014

Page Number 1 of 1

PO Unit Price

\$289.15

Order From:

TEMPO AEROSPACE INC. 205 FENMAR DR.

TORONTO, ON M9L 2X4

VC-TEM001

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone Ship Via:

Ship Acct:

416 746 2233

Purolator ground collect

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms Currency Net 30 CAD

AD

FOB

014

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg 1D	ا ر	Req Date/ CD Taxable mise Date	Req Qty/ Unit of Measure	
1	71400-11	DEF-23377-1-N-1GKT AQUA GREEN PRIMER	-	1/2014 1/2015 Yes	4.00 Each	

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A013 SHELF LIFE CONTROLLED MATERIAL; 80% SHELF
LIFE REQUIRED AT RECEIPT
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

@1501-14

Line Total:

\$1,156.6

Extende

\$1,156.60

Deliver To: ANDY

PO Total:

\$1,156.6

W

cz

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.



Tempo Aerospace Inc.

Packing Slip

205 Fenmar Drive Toronto ON M9L 2X4 Canada Phone: 416.746.2233 Fax: 416.746.2235 orderdesk@tempo-aerospace.com

				No.	27844		Pg:1/2
Ship To : [1]				For:	ccount No. [DARTAS]	
Ship To: [1] Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Canada		Dart Aerospace Ltd. Attn: Chantal Lovoie, Buyer 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Canada Tel.: (613) 632-9577 Fax: (613) 632-1053					
S.O. No.	: 7601	Our Ref	;			Domestic AWB:	
Cust P.O.	: PO25903	Your Ref	:			Int'i AWB :	
	: Jan-13-2015	Trans Mode	: GROL	IND		Origin :	
Shipped On	: Jan-13-2015	Req. Docs	: CC, T	R		Transport :	
Ship Via	: PUROLATOR GROUND	Lic No.	:			Nationality:	
Incoterms	: FREE CARRIER	Expires				Trip/Flight:	
Terms	: NET 30						
Ship Via Acct.	: PUROLATOR GROUND Acco	ount No. 7684382	····				a data da pero la sella del seguina del se sella compete del pero de productiva del que del seguin escare de l
Our Contact	; House Account						

Line	P/N & Description	Ordered	Qty Shi	ipped	Back Order	Packaging
1	DEF-23377-1-N-1GKT Aqua Green, Chrome Free Epoxy Primer Spec1: MIL-PRF-23377K Ty.I CL.N	/4	4	КТ	0	(In Box:b) (Qty 2 in Pkg:a) (In Box:b) (Qty 2 in Pkg:b)
2	DEF-02GN084 BASE: Aqua Green Chromate Free Epoxy Primer UID: 15371	/4	4	GC	0	(4,) 2
3	Spec1:MIL-PRF-23377K TY I CL.N Batch #:101682 LINE VOLUME: [ML] 11,360.000 DEF-02GN084CAT CURE: Aqua Green Epoxy Primer UID: 15372 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	4.	4	QC		5014
	For a DANGEROUS GOODS EMERGENCY, call Canute Pour une MARCHANDISES DANGEREUSES URGENCE 24 heures (613) 996-6666	, appeler Candlec a	ia nombre	o do	6666 /	
Box No.	Box(es) Type / Description Dimension Type [CM]	Gross Weight [KG]	Net W [K	Veight (G]		Box(es) ID



Tempo Aerospace Inc.

205 Fenmar Drive Toronto ON M9L 2X4 Canada Phone: 416.746.2233 Fax: 416.746.2235 orderdesk@tempo-aerospace.com

Packing Slip

Trans Mode : GROUND Req. Docs : CC, TR

Pick Ticket No. 27844 / Page: 2/2

Line	P/N & Description	Ordered	Qty Shipped	Back Order	Packaging
1	4X1 Double Walled Brown Box L 14.750 x W 14.500 x H 8.250	0.000	0.000		а
2	4X1 Double Walled Brown Box L 14.750 x W 14.500 x H 8.250	0.000	0.000		b
					:
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
				<u> </u>	

Picked By:

Natasha Pisegna, INSIDE SALES/CUSTOME

Certificate of Conformance/ Certificat de conformité

Packing Slip/Bon de ramassage 58023847 Page: 1

PPG Aerospace

A Division of PPG Canada Inc

5676 Timberlea Blvd. Mississauga, ON L4W 4M6

Phone: 905-629-7999

Fax: 905-629-7009

Order Date/

Date de la Commande:

Cust. No./ No. de réf du client:

Terms/ Termes

Cust. P.O./ No. de bon de Commande:

Site:

01/06/15



Order No/

01/06/15 11:14:29

of 1

305491

NET30

3738CN

TC009536

Ship via/ SEE BELOW

Expédié par:

Ship To 00002678

Expédié àTEMPO AEROSPACE INC. 205 FENMAR DRIVE TORONTO, ON M9L 2X4

CANADA

Remarques: BUYER: LORNA BUFFETT/GS

Sold To/ TC009536

Vendu à: TEMPO AEROSPACE INC.

205 FENMAR DRIVE NORTH YORK, ON M9L 2X4

CANADA

Line/ Qty Ordered/ Qté. commandée. UM Ligne

Description

Due Date/ Promise Date/ Qty to Ship/ Date Requise Date Due Date Promise Qté. Disponible

Oty Picked/ Qté. Liverée

Quality Requirements:

CERTIFICATE OF CONFORMANCE

TEST REPORT

CUSTOMER PO# REQUIRED ON CERT

Shipping Info:

CUSTOMER PO# REQUIRED ON ALL SHIPPING DOCUMENTS SHIP VIA MANITOULIN TRANSPORT COLLECT ACCT# 0064671

5 EA DE02GN084XMPY22K

12/17/14 01/08/15 01/08/15

MIL-PRF23377 TI.CLN GRN

02GN084 GK 3:1 GL

SPEC: MIL-PRF-23377K TY I CL N

Lot No: 101682/101683

*Location: FRA-2 *Location: FRA-3

905-670-8990

000987

JAN 1 3 2015

Date Shipped/
Date D'expédition

We certify that this material has been manufactured and tested in accordance with applicable specification(s). Test data pertaining to this material is on file and available for inspection upon request.

Niri Mahara



3 boxes 29/9

Quality Control

Test Report for MIL-PRF-23377K, Type I, Class N Formerly MIL-PRF-23377J, Type I, Class N Amendment 2 including Sikorsky Specification SS8555

Batch No., Catalyst:



FED STD 595 Color: green Deft Code, Base:

02GN084

101682

Date:

4/22/2014 Deft Code, Catalyst:

02GN084CAT 101683

Batch No., Base: Customer:

Contract/PO Number:

TEST REQUIREMENTS	TEST RESULTS
Composition (3.4)	
Lead metal or compounds	<0.05% by weight
Incedental Cadmium and compounds	< 1 ppm
Chromium Content (3.4.1.3) [class N only] ≤ 5 ppm	≤5.ppm
Volatile Content (3.4.2) - 340 G/L maximum	246.g/L
Physical Component Properties (3.5)	
Fineness of Grind (3.5.1) - 5 min	5 000000000000000000000000000000000000
Condition in Container (3.5.2)	Conforms
Physical Admixed Properties (3.6)	
Color (3.6.1)	Conforms for Type
Odor (3.6.2)	Characteristic
Viscosity (3.6.3), Admixed - 40" max in #4 Ford Cup	19.97
Pot Life (3.6.4), After 4 hrs. 70" max in #4 Ford Cup	27.22
Physical Film Properties (3.7)	
Surface Appearance (3.7.1)	No Abnormalities
Drying Time (3.7.2)	***************************************
 Tack Free, 5 hours maximum 	5 Hours
Dry-Hard, 8 hours maximum	8 Hours
Lifting (3.7.3)	No Lifting
Adhesion (3.7.4), in water 24 hrs @ room temp	No Peeling
Flexibility (3.7.5) 10% minimum, GE Impacter	10%
Resistance Properties (3.8)	
Water Resistance (3.8.1) 4 days @ 120 deg F	No Deficiency
Solvent Resistance (3.8.3) min 25 double MEK rubs	>25 MEK rubs
Fluid Resistance (3.8.4)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
 MIL-PRF-23699, 24 hours @ 250 deg F. 	No Deficiency
2. MIL-PRF-83282, 24 hours @ 150 deg F.	No Deficiency
Working Properties (3.9)	
Mixing and Dilution (3.9.1)	No Separation:
Application (3.9.2)	No Sags or Runs

I certify that these test were performed in accordance with the specification test procedure and that the test results in this report as submitted are true, valid and represent required for the above mentioned batch numbers.

TITLE: Q.C. Technician

PRC-DeSoto International, Inc., 17451 Von Karman Ave., Irvine, CA 92614

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666 Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:

MIL-PRF-23377J, TYPE I, CLASS N BASE

Revision Date: 05/08/2012

Print Date:

Identification Number: Product Use/Class:

02GN084

NON-CHROMATE EPOXY PRIMER

NSN:

Manufacturer:

BASE/MIL-PRF-23377J, TYPE I, CLASS N Deft, Inc. (CAGE CODE 33461)

Information Phone: Emergency Phone:

(949) 474-0400 (800) 424-9300

17451 Von Karman Ave

Irvine, Ca. 92614

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Harmful by inhalation, in contact with skin, and if swallowed. May cause burns to the skin. Eye irritant. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Contact with eyes may cause irritation. Benzyl alcohol, a component of this formulation, can cause severe eye irritation and eye tissue injury as a result of direct eye contact.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include drying and cracking of skin, swelling, redness, pain, numbness, rash, burning, blistering, and skin burns. Material may pass through the skin and cause effects similar to breathing or ingestion. Prolonged or repeated skin contact may cause dematitis, drying, and defatting due to the solvent properties. May cause allergic skin reaction. May cause severe skin irritation. Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, nausea, weakness, dizziness, staggering gait, confusion, fatigue, drowsiness, unconsciousness, or coma. Exposure may cause difficult breathing, shortness of breath, or coughing. Inhalation may cause headaches and loss of consciousness. Harmful by inhalation. Lung inflammation or other lung injury may occur if secondary butyl alcohol enters the lungs through vomiting or swallowing. Overexposure to METHYL NORMAL PROPYL KETONE, a component of this formulation, has been suggested as a cause of mild, reversible effects on the livers and kidneys of laboratory animals. Exposure to benzyl alcohol, a component of this formulation, may aggravate preexisting medical conditions of the respiratory tract, lungs, and skin.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. Lung inflammation or other lung injury may occur if methyl n-propyl ketone enters the lungs through vomiting or swallowing. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Repeated or prolonged contact causes sensitization, asthma, and eczemas. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Exposure may cause mild, temporary changes in the liver, and low blood pressure. In animal studies, exposure to a component(s) has been shown to cause damage to the fetus, only at a level of exposure that would also harm the pregnant animal. The relevance of these findings to humans is unknown. Exposure to METHYL NORMAL PROPYL KETONE, a component of this formulation, has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans. Methyl n-propyl ketone, a component of this formulation, has been shown to cause harm to the fetus in labortory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. PRODUCT CONTAINS TITANIUM DIOXIDE PIGMENT, WHICH HAS AN IARC CLASSIFICATION OF 2B POSSIBLY CARCINOGENIC TO HUMANS.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	15-40
TITANIUM DIOXIDE	13463-67-7	5-10
sec-BUTYL ALCOHOL	78-92-2	5-10
CYCLOHEXANONE	108-94-1	5-10
PRASEODYMIUM OXIDE	12036-32-7	1-5
METHYL n-PROPYL KETONE	107-87 - 9	1-5
BENZYL ALCOHOL	100-51-6	1-5
BISPHENOL A EPOXY RESIN, AVG. MOL. WT. < 700	25085-99-8	1-5
ALIPHATIC AMINE	140-31-8	0.5-1.5

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION 8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician. If symptoms develop (irritation) from airborne exposure, move to fresh air. First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard. If symptoms develop, consult a physician.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 46 TCC

LOWER EXPLOSIVE LIMIT (%): UPPER EXPLOSIVE LIMIT (%): 10.

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Spray, Dry Sand, Dry Powder Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition. Do not use a cutting or welding torch near or on a drum of product, because vapors may ignite explosively, even if the drum is empty and contains only product residue. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 – Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Soak up with vermiculite or inert absorbent material.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Use safety precautions with empty containers. Empty containers may contain hazardous materials (product residues) in the form of solids, liquids, or vapors. Always use grounding leads when transferring from one container to another. Protect container against physical

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OCULA DEL	
BENZENE, 1-CHLORO-4	2.5 mg/m3	N.E.	OSHA PEL	OSHA STEL
TRIFLUOROMETHYL	2.5 mg/mo	N.E.	2.5 mg/m3	N.E.
TITANIUM DIOXIDE	10 ma/m3	N.E.	15 mg/m3	Al r
sec-BUTYL ALCOHOL	100 ppm	N.E.	100 mg/m	N.E. N.E.
CYCLOHEXANONE	25 ppm	N.E.	25 ppm	N.E.
PRASEODYMIUM OXIDE	10 mg/m3 total dust	NE	15 mg/m3 total dust	IV.C.
METHYL n-PROPYL KETONE	200 ppm	250 ppm	200 ppm	250 ppm
BENZYL ALCOHOL	N.E.	N.E.	N.E.	N.E.
BISPHENOL A EPOXY RESIN,				14.6.
AVG. MOL. WT. < 700				
ALIPHATIC AMINE	N.E.	N.E.	N.E.	NE

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been

BENZENE, I COLLONG TRIP LONG BOTON PROTOCOLOR TO Protonged of repeated exposure to large amount unough preating of smallowing has been shown cause damage to the liver and kidneys in animal studies.

TITANIUM DIOXIDE CAS# 13463-67-7 - ACGIH/TLV & OSHA/PEL exposure limits are for the total dust. IARC Group 2B possibly carcinogenic to humans.

Titanium Dioxide is considered by NIOSH to be a potential occupational carcinogen under Hazard Communication Standard, 29 CFR 1910.1200. This was based on NIOSH's interpretation of the study by Lee, Trochimowicz, and Reinhardt [1985], "Pulmonary Response of Rats Exposed to Titanium Dioxide (TiO2) by Inhalation for Two Years." "The authors of this study concluded that based on the excessive dust loading and overwhelmed clearance mechanism in the lungs of rats exposed chronically at 250 mg/m3 (6 hrs/day, 5 days/week for 2 years), the biological relevance of lung tumors to man appears to be negligible." As of September 2, 2011 As Known To The State Of California To Cause Cancer: titanium dioxide (airborne, unbound particles of respirable size) IRRITATION OF EYES, SKIN, AND RESPIRATORY TRACT ARE SYMPTOMS OF EXPOSURE. NO LISTING IN 2009 ACGIH GUIDE TO OCCUPATIONAL **EXPOSURE**

METHYL n-PROPYL KETONE CAS# 107-87-9 has been shown to cause harm to the fetus in laboratory animals. It only caused harm at levels of overexposure that would also harm the pregnant animal. The relevance to humans is unknown. It also has been shown to cause mild, reversible kidney effects and mild, reversible liver effects in laboratory animals.

BENZYL ALCOHOL CAS# 100-51-6 - In laboratory studies, Benzyl alcohol has been shown to cause harm to the fetus of animals. Significance of these findings in humans is unknown.

ALIPHATIC AMINE CAS# 140-31-8 - Contains Bisphenol A (CAS# 80-05-7) less than 55%.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations belowpermissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator that is recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) is necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below the OSHA permissible limits.

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eve contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area. Wear boots that are chemical-resistant.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):

Odor:

Appearance:

Freeze Point:

211 - 282

Vapor Density: PARACHLOROBENZOTRIFLUORIDE & Odor Threshold: HEAVIER THAN AIR

METHYL n-PROPYL KETONE

SOLVENTS

Green liquid

ND

N.D.

Specific Gravity:

Evaporation Rate:

N.D. 1.411

N.D.

Vapor Pressure, mm Hg: Physical State:

Solubility in H2O:

7.2 Liquid

PH: Viscosity:

N.A. > 18 #2 ZAHN CUP

SECONDS (> 20 cps)

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Avoid uncontrolled reactions with amines. Do not breathe vapors or spray mist.

Incompatibility: Material is incompatible (reacts) with strong oxidizing agents, strong acids (Lewis and mineral), amines, and mercaptans. Material is incompatible with oxidizing agents. Material is incompatible with acids and bases. Reacts with amines and mercaptans.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, aldehydes, and acids (organic). May produce gases containing fluorine or chlorine. Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions. Benzyl alcohol, a component of this formulation, is incompatible with aluminum, iron, strong mineral acids, and strong oxidizing agents.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:

Paint

Packing Group: Hazard Subclass:

11 N.A.

DOT Technical Name: **DOT Hazard Class:**

N.A.

FLAMMABLE LIQUID 3

Resp. Guide Page: N.A.

DOT UN/NA Number:

UN-1263

IATA:

REGULATED

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Component sec-BUTYL ALCOHOL **CAS Number** 78-92-2

Percent By Weight

8.4211

Page 4 of 4

Toxic Substances Control Act:

 This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None,

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Component

CAS Number

INORGANIC SULFATE

7778-18-9

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Component INORGANIC SULFATE POLYAMIDE RESIN CAS Number 7778-18-9 TRADE SECRET

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Component TITANIUM DIOXIDE CAS Number 13463-67-7

Percent By Weight 8.4211

METHYL ISOBUTYL KETONE SILICA, CRYSTALLINE (QUARTZ)

108-10-1 14808-60-7 0.1684 0.0283

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

None

International Regulations: As follows -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 1

Flammability: 3

Reactivity: 0

Personal Protection: G

NFPA Fire Rating: 3 NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 405 VOLATILE ORGANIC COMPOUNDS, LB/GAL: 3.38

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 340 VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 2.8 VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 0.41

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 297 VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 2.48

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0.00330

REASON FOR REVISION: RESTORE MSDS PRIOR TO REVISION DATE 05-08-2012

REGULATORY CODE: 02GN084

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of

chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

 National Response in Canada CANUTEC: 613-996-6666 Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:

MIL-PRF-23377J-TYPE I-CLASS N

Revision Date:

01/31/2012

Identification Number:

CURATIVE 02GN084CAT

Print Date:

EPOXY PRIMER CURING AGENT/MIL-

Irvine, Ca. 92614

Product Use/Class:

PRF-23377J, TYPE I, CLASS N (NON-CHROMATE)

NSN:

Manufacturer:

Deft, Inc. (CAGE CODE 33461)

Information Phone:

(949) 474-0400

17451 Von Karman Ave

Emergency Phone: (800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Contact with eyes may cause irritation. Contact may cause excessive blinking and tear production, burns to the cornea, or excessive redness and swelling to the conjunctiva. Also, eye contact may cause the eye to have pain and discomfort.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling. redness, and rash. Prolonged or repeated skin contact may cause dermatitis, drying, and defatting due to the solvent properties. May cause allergic skin reaction. Contact may cause redness, increased pigmentation of the skin, or discomfort. May cause severe skin irritation.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Exposure may cause drowsiness. Inhalation may cause headaches, difficult breathing, and loss of consciousness. Overexposure to METHYL NORMAL PROPYL KETONE, a component of this formulation, has been suggested as a cause of mild, reversible effects on the livers and kidneys of laboratory animals. A component may form methanol vapors in the lungs. Methanol vapors may cause numbness. shooting pains, and tingling, in the hands and forearms. Methanol vapors may also cause disturbances of vision, dizziness, and drowsiness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. Harmful or fatal if swallowed. Lung inflammation or other lung injury may occur if methyl n-propyl ketone enters the lungs through vomiting or swallowing. Ingesting of a component may lead to the formation of methanol in the stomach. Methanol may cause damage to the muscle in the heart, liver, and kidneys. Methanol may also cause shortness of breath, nausea, vomiting, cramps, weakness, fatique. dizziness, confusion, visual disturbances, eye damage, blindness, restlessness, drunken behavior, abdominal pain, drowsiness, headache, coma, and death.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Repeated or prolonged contact causes sensitization, asthma, and eczemas. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Symptoms of overexposure may occur for up to 48 hours after the original exposure occurred. Exposure to METHYL NORMAL PROPYL KETONE, a component of this formulation, has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans. Methyl n-propyl ketone, a component of this formulation, has been shown to cause harm to the fetus in labortory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

Component BISPHENOL A EPOXY RESIN, AVG. MOL. WT. < 700 METHYL n-PROPYL KETONE METHYL n-AMYL KETONE 3-GLYCIDOXYPROPYLTRIMETHOXYSILANE

CAS Number 25085-99-8 107-87-9 110-43-0 2530-83-8

Weight % Reporting Ranges 60-100 7-13 3-7

Section 4 - First Aid Measures

First Aid - Eve Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician. If symptoms develop (irritation) from airborne exposure, move to fresh air. First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard. If symptoms develop, consult a physician.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Restore breathing. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 46 TCC

LOWER EXPLOSIVE LIMIT (%): UPPER EXPLOSIVE LIMIT (%): 8.0 1.1

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Spray, Dry Sand, Dry Powder Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Soak up with vermiculite or inert absorbent material.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place. Protect material from direct sunlight.

Section 8 - Exposure Controls / Personal Protection

<u> </u>					
Component BISPHENOL A EPOXY RESIN, AVG. MOL	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	
WT. < 700 METHYL n-PROPYL KETONE METHYL n-AMYL KETONE 3- GLYCIDOXYPROPYLTRIMETHOXYSILAN	200 ppm 50 ppm N.E.	250 ppm N.E. N.E.	200 ppm 100 ppm N.E.	250 ppm N.E. N.E.	

METHYL n-PROPYL KETONE CAS# 107-87-9 has been shown to cause harm to the fetus in laboratory animals. It only caused harm at levels of overexposure that would also harm the pregnant animal. The relevance to humans is unknown. It also has been shown to cause mild, reversible kidney effects and mild, reversible liver effects in laboratory animals.

3-GLYCIDOXYPROPYLTRIMETHOXYSILANE CAS# 2530-83-8 - 1 ppm TLV Suggested by DOW Chemical. It has been shown in animal studies to be a weak mutagen. It is improbable that this substance will cause a significant genotoxic hazard. Contact with water and an alkali or acid catalyst, under certain conditions, may cause hydrolysis or polymerization to occur. Both reactions are exothermic (produce heat), and may occur at the same time.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator that is recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) is necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below the OSHA permissible limits.

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area. Wear boots that are chemical-resistant.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Component

CAS Number

Percent By Weight

METHYL ISOBUTYL KETONE

108-10-1

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

None

International Regulations: As follows -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 1

Flammability: 3

Reactivity: 1

Personal Protection: G

NFPA Fire Rating: 3 NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 190 VOLATILE ORGANIC COMPOUNDS, LB/GAL: 1.58

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 340 VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 2.83 VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 0.22

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 190 VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 1.58

VOLATILE HAPS PER WEIGHT SOLIDS, LB./LB. 0.00752 REASON FOR REVISION: UPDATED PROPOSITION 65

REGULATORY CODE: 02GN084CAT

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.



PRODUCT INFORMATION DATA SHEET

17451 Von Karman Avenue, Irvine, CA 92614 Tel (949) 474-0400 (800) 544-3338 Fax (949) 474-7269 www.deftfinishes.com

02GN084 Non-Chrome Epoxy Polyamide Primer

Product Information

Specifications

MIL-PRF-23377J Type I Class N

Description

Chemically cured, non-chromate, two-component epoxy polyamide primer

Features

Corrosion inhibiting

Chemical and Solvent Resistant

Resistant to immersion in Hydraulic Fluids, Lubricating Oils, Phosphate Ester Based Hydraulic Fluids, Skydrol and Distilled water

Color

Reducer Mix Ratio None required. May be reduced with IS-237*

3 parts 02GN084 base by volume to 1 part 02GN084CAT catalyst by volume

Kit size	02GN084 base	02GN084CAT
GK	96 oz / 2.84 L	32 oz / 946 mL
QK	24 oz / 710 mL	8 oz / 237 mL

Pot Life

4 hours at 75° ± 10°F

Viscosity

initial: 20 ± 2 seconds # 2 FZ Zahn Cup

40 seconds, max, # 4 Ford Cup Pot life: 70 seconds, max, #4 Ford Cup

Induction Time

None required

Application Thickness

0.6 - 0.9 mils dry film thickness

Storage Stability

2 years from DOM when stored between

72 - 80°F

Recommended Storage

Store indoors between 70 - 90°F in original

unopened containers.

*Use only if needed and if local and state VOC limits allow

Forced Dry Schedule

For dry to stack conditions only. Allow a minimum of 15 minutes flash off time at ambient temperatures* prior to exposing painted parts to high temperatures. Complete testing should be done prior to use. Below are suggested starting points. Other variables may affect these cure schedules.

Temperature	Time
120°F	45 minutes
140°F	30 minutes
160°F	20 minutes
180°F	15 minutes

Ambient temperatures are defined as 70° ± 10°F and 50% ± 10% Relative Humidity.

Mixing and Thinning

GK & QK: Stir or shake the base component to ensure any pigment, which may have settled on the bottom of the can, has been fully incorporated into the base. Do not stir or shake the base component longer than 5 minutes. Slowly add the one volume of catalyst to three volumes base component. Mix by hand stirring, paint shaker or mechanical mixing to ensure the base/catalyst mixture is homogeneous. DO NOT SHAKE OR MECHANICALLY MIX MATERIAL FOR LONGER THAN 10 MINUTES. Constant agitation of the material during spray application is recommended.

Characteristics*

Characteristics	Base	Catalyst	Admixed
Weight per gallon (lbs)	11.6	8.9	10.9
% Solids by weight	51.3	82.2	57.6
% Solids by volume	38.5	76.5	48.0
Coatings VOC (g/L)	394	190	330
Coatings VOC (lbs/gal)	3.3	1.6	2.8
Material VOC (g/L)	291	190	266
Material VOC (lbs/gal)	2.4	1.6	2.2

Dry film density**:

Theoretical Coverage** per gallon as applied:

1.57 g/cc 770 sq. ft.

Theoretical Dry Film Weight per gallon kit as applied:

3.70 g/sq. ft (0.00815-lbs/sq. ft)

Characteristics are calculated based on product formulas and ingredient characteristics as reported to Deft, Incorporated by raw material suppliers. Values reported are not specification values. They are presented for general information only. Dry film density and theoretical coverage based on proper application of coating at 1 mil dry

film thickness and 100% transfer efficiency.

Application Equipment

Conventional, Air, Air Assisted Airless, HVLP, Electrostatic spray equipment may be used to apply this material. For your application, please contact the equipment manufacturer for more specific information on Conventional, HVLP or Electrostatic spray applications, and recommendations on hose diameter and lengths.

Packaging, Yields, Shipping Weight

This material is available in the follow kit sizes:

	Kit size	Approx. Yield (Mixed)	Approx. Shipping Weight
II	GK	1 gallon (3.8 L)	12.3 lbs (5.6 kg)
II	QK	1 quart (946 mL)	3.6 lbs (1.6 kg)

Additional kit sizes are available upon request.

Equipment Cleanup

Use IS-237 Epoxy Reducer (MIL-T-81772B Type II) to remove any liquid or residual primer from equipment. Once material has cured, use an approved chemical paint removal system to strip primer from parts and equipment

Dry Times

Topcoat Window: 5 - 24 hours* Tack Free: 2 hours, min Dry Hard: 8 hours, max Full Cure: 7 days, min

* Reactivation required before topcoating after 24 hours primer cure Note: Dry times above were established at room (ambient) temperatures, 75° ± 5°F and 50% ± 10% Relative Humidity

Refer to the product label or Material Safety Data Sheet (MSDS) for each component for Personal Protective Equipment and Proper Handling.